

**IOWA DEPARTMENT OF NATURAL RESOURCES
WATER SUPPLY SECTION
CONSTRUCTION PERMIT APPLICATION**

SCHEDULE-3c, Water Quality Data

Date Prepared	Project Identity
Date Revised	

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1. Water Quality Data:

Parameter		Units	Existing Raw Water		Proposed Raw Water Source	Treated Water	
			Minimum	Maximum		Present	Design
Aesthetic Water Quality Parameters	Sodium	mg/l					
	Calcium	mg/l as Ca					
	Magnesium	mg/l					
	Manganese	mg/l					
	Iron	mg/l					
	Sulfate	mg/l					
	pH						
	Filterable Residue	mg/l					
	Hardness as CaCO ₃	mg/l					
	Alkalinity P as CaCO ₃	mg/l					
	Alkalinity T as CaCO ₃	mg/l					
Inorganics	Corrosivity						
	Antimony	mg/l					
	Arsenic	mg/l					
	Asbestos	MFL					
	Barium	mg/l					
	Beryllium	mg/l					
	Cadmium	mg/l					
	Chromium	mg/l					
	Copper (action level)	mg/l					
	Cyanide as free Cyanide	mg/l					
	Fluoride	mg/l					
	Lead (action level)	mg/l					
	Mercury	mg/l					
	Nickel	mg/l					
	Nitrate	mg/l as N					
	Nitrite	mg/l as N					
	Total Nitrate + Nitrite	mg/l as N					
	Selenium	mg/l					
	Thallium	mg/l					
Radio-nuclides	Radium 226	pCi/l					
	Radium 228	pCi/l					
	Gross Alpha	pCi/l					
	Strontium 90	pCi/l					
	Tritium	pCi/l					
Other	TTHM	mg/l					
	HAA5	mg/L					

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2. Have VOC's or SOC's been detected in the water system? ☐ Yes ☐ No
If Yes => Provide the following information on any VOC or SOC that has been detected:

Contaminant	Sample Location	Date Sampled	Concentration

3. Additional Water Quality Data for Surface Water or Groundwater Under Direct Influence Systems:

Parameter		Units	Existing Raw Water		Proposed Raw Water Source	Treated Water	
			Minimum	Maximum		Present	Design
Chloride							
Ammonia							
Phosphate							
Specific Conductance							
Bicarbonate							
Carbonate							
Solids	Filterable						
	Nonfilterable						
	Volatile						
	Fixed						
	Settleable						
Color							
Fecal Coliform							
Algae *							
Surfactants							
DO							
BOD ₅							
TOC							

4. What is the source of the above listed water quality data, the number of water samples evaluated and the time frame over which samples were collected? _____

5. Identify and quantify the macroscopic organisms _____

- * Identify the predominate algae types _____
